International Application No PCT/IB2005/050052

			7 1020007 030032		
A. CLASSI IPC 7	IFICATION OF SUBJECT MATTER G01R33/565				
According to	o International Patent Classification (IPC) or to both national classific	cation and IPC			
	SEARCHED				
Minimum do IPC 7	ocumentation searched (classification system followed by classificat ${ t G01R}$	tion symbols)			
	tion searched other than minimum documentation to the extent that				
	data base consulted during the International search (name of data baternal, INSPEC, MEDLINE, EMBASE, BI	• • •	•		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to daim No.		
X	ROOPCHANSINGH V ET AL: "Single-magnetic field mapping embedded echo-planar time-course imaging" MAGNETIC RESONANCE IN MEDICINE W vol. 50, no. 4, October 2003 (200 pages 839-843, XP002323257 ISSN: 0740-3194	in ILEY USA,	1-6,14, 15,19, 23-26		
Y	page 839, right-hand column - page right-hand column page 843, left-hand column	ge 840, -/	27		
X Furth	her documents are listed in the continuation of box C.	X Patent family members	are listed in annex.		
"A" docume conside "E" earlier difiling de "L" docume which i citation "O" docume other n	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	<ul> <li>"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone.</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>			
	actual completion of the international search	Date of mailing of the internal	ational search report		
5	April 2005	18/04/2005			
Name and m	nailing address of the ISA  European Patent Office, P.B. 5818 Patentiaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. S1 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Skalla, J			

International Application No
PCT/IB2005/050052

		7/1B2005/050052
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Palayent to slaim No.
Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SHOICHI KANAYAMA ET AL: "IN VIVO RAPID MAGNETIC FIELD MEASUREMENT AND SHIMMING USING SINGLE SCAN DIFFERENTIAL PHASE MAPPING" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 36, no. 4, 1 October 1996 (1996-10-01), pages 637-642, XP000629277 ISSN: 0740-3194	27
X	the whole document	1,19,26
X Y	US 4 623 843 A (MACOVSKI ET AL) 18 November 1986 (1986-11-18) column 3, line 22 - line 54 column 7, line 12 - line 22	1,18-20, 24,26 16,17,21
Υ	US 5 731 704 A (SCHNUR ET AL) 24 March 1998 (1998-03-24) column 4, line 66 - column 5, line 20	16,17,21
X	WARD H A ET AL: "REAL-TIME AUTOSHIMMING FOR ECHO PLANAR TIMECOURSE IMAGING" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 48, no. 5, November 2002 (2002-11), pages 771-780, XP001130531 ISSN: 0740-3194 page 772; figure 1 page 777, left-hand column	1-13,19, 26
X	ROOPCHANSINGH V. ET AL: "Magnetic Field Mapping in Real Time with a Single RF Pulse" PROCEEDINGS OF THE INTERNATIONAL SOCIETY FOR MAGNETIC RESONANCE IN MEDICINE, TENTH MEETING PROCEEDINGS, 18 May 2002 (2002-05-18), XP002323258 HONOLULU, HI, USA the whole document	1-6,14, 15,19, 23-27
A	WEISKOPF N. ET AL: "Correction of Geometric Distortion in fMRI: a Single-Shot Technique Using Multi-Echo Echo-Planar Imaging (EPI)" PROCEEDINGS OF THE INTERNATIONAL SOCIETY FOR MAGNETIC RESONANCE IN MEDICINE, TENTH MEETING PROCEEDINGS, 18 May 2002 (2002-05-18), page 1742, XP002323259 HONOLULU, HI, USA the whole document	1-27

Internation al Application No
PCT/IB2005/050052

		PCT/IB2005/050052		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to cla	aim No.	
A	SHEN J ET AL: "IMPROVEMENTS ON AN IN VIVO AUTOMATIC SHIMMING METHOD (FASTERMAP)" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 38, no. 5, November 1997 (1997-11), pages 834-839, XP000741762 ISSN: 0740-3194 cited in the application the whole document	1-27		
A	GRUETTER R ET AL: "Field mapping without reference scan using asymmetric echo-planar techniques" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 43, 2000, pages 319-323, XP002294864 ISSN: 0740-3194 the whole document	1-27		
A	ERICSSON A ET AL: "MEASUREMENTS OF MAGNETIC FIELD VARIATIONS IN THE HUMAN BRAIN USING A 3D-FT MULTIPLE GRADIENT ECHO TECHNIQUE" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 33, no. 2, 1 February 1995 (1995-02-01), pages 171-177, XP000482943 ISSN: 0740-3194 figure 1	1-27		

Interna mal Application No

Information on patent family members				Internation Application No PCT/IB2005/050052		
Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4623843	Α	18-11-1986	NONE			
US 5731704	Α	24-03-1998	DE JP	1953639 911743	0 A1 5 A	03-04-1997 06-05-1997
				•		